

Work Order ID 136165

136165

Page 1

Wednesday, September 02, 2015 11:11:08 A

Item ID: D139-799-015 Accept ***N900040100*** Setup Start ***NS1***
 Revision ID: Stop ***NS2***
 Item Name: Engine Wash
 Start Date: 8/26/2015 Start Qty: 1.00 ***1*** Cust Item ID:
 Required Date: 9/7/2015 Req'd Qty: 1.00 ***1*** Customer:
 Reference:

Approvals: Process Plan: MLS Date: SEP 02 2015 Tooling: _____ Date: _____ Run Start ***NR1***
 QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
IIN-D139-799	I								
100	Document Control	0.00							DAS 02 9-89
100									
DC	Memo	0.00							
Doc.Control -USB or Paperwork	Photocopy bluefile & type labels per PPP D139-799-015 CHG005								SEP 21 2015
110	Pick Kit	0.00							
110									
Packaging	Memo	0.00							
Packaging									
120	QC4- 100% Inspect kits for completeness	0.00							
120									
QC	Memo	0.00							
Quality Control									

MLS 1509-08

DAS
27
9-89
SEP 16 2015

DAS
02
9-89
SEP 21 2015

Work Order ID 136165***136165***

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Wednesday, September 02, 2015 11:11:08 A

Item ID: D139-799-015

Accept

N900040100Setup Start ***NS1***

Revision ID:

Stop ***NS2***

Item Name: Engine Wash

Start Date: 8/26/2015 Start Qty: 1.00 ***1***

Cust Item ID:

Required Date: 9/7/2015 Req'd Qty: 1.00 ***1***

Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Run Start ***NR1***

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130		0.00							
130									
Packaging	Memo	0.00							
Packaging	Identify and pack for shipping as per PPP D139-799-015								
	Location: <u>619</u>								
	PPP rev: _____								
140	QC21- Final Inspection - Work Order Release	0.00							
140									
QC	Memo	0.00							
Quality Control									

SH 20150922

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Work Order ID: 136165

136165

Parent Item: D139-799-015

D139-799-015

Parent Item Name: Engine Wash

Start Date: 8/26/2015

Required Date: 9/7/2015

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP Rev:B 11.07.04 new issue DD verf:JLM IPP REV:B
AS PER ECN 11-598 11-06-05 JLM VERF BY:DD IPP Rev:C 11.09.27
PER CHG003 DD verf:EC IPP Rev:D 13.09.24 PER
CHG005/ECN13-579 DD verf:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
MS21919-WDG9		Purchased	No				Each	127.0000		20			
MS21919-WDG9									**				
Clamp		DAS 02 9-89										DAS 27 9-89	
				<u>Location</u>				<u>Loc Qty</u>					
				ST273A				120					
				m133031				120					
				ST297				7					
				m132344				7					
D4121-1		Manufactured	No			110	Each	10.0000	2	2			
D4121-1									**				
Hose Assy		DAS 02 9-89										DAS 27 9-89	
				<u>Location</u>				<u>Loc Qty</u>					
				FG				3					
				114101				1					
				132053				2					
				ST214				7					
				135082				3					
				135590				4					

SEP 16 2015

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : ☐					

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Work Order ID: 136165

Parent Item: D139-799-015

Parent Item Name: Engine Wash

136165

D139-799-015

Start Date: 8/26/2015

Required Date: 9/7/2015

Start Qty: 1.00

Required Qty: 1.00

D4121-3 Manufactured No

D4121-3

Hose Assy

DAS
02
9-89

110 Each 7.0000 1 1

**

DAS
27
9-89

DAS
6
9-89

Location Loc Qty Loc Code

FG 1

91535 1

ST213 4

135566 4

ST214 2

129024 2

D4121-5 Manufactured No

D4121-5

Hose Assy

DAS
02
9-89

110 Each 7.0000 1 1

**

DAS
27
9-89

DAS
6
9-89

Location Loc Qty Loc Code

ST214 7

129025 1

132143 2

135513 4

D4131-041 Manufactured No

D4131-041

Manifold Assembly

DAS
02
9-89

110 Each 2.0000 1 1

**

DAS
27
9-89

DAS
6
9-89

Location Loc Qty Loc Code

ST093 2

133395 2

D4131-043 Manufactured No

D4131-043

Doubler Assembly

DAS
02
9-89

110 Each 7.0000 1 1

**

DAS
27
9-89

DAS
6
9-89

Location Loc Qty Loc Code

ST093 7

135217 7

SEP 16 2015

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐
OTHER : ☐					

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Work Order ID: 136165

136165

Parent Item: D139-799-015

D139-799-015

Parent Item Name: Engine Wash

Start Date: 8/26/2015

Required Date: 9/7/2015

Start Qty: 1.00

Required Qty: 1.00

D4146-1 Manufactured No

D4146-1

DAS
02
9-89

Fitting

110 Each 8.0000 2 2

**

DAS
27
9-89

DAS
6
9-89

Location

Loc Qty

Loc Code

ST093

8

132335

8

D4182-1 Manufactured No

D4182-1

DAS
02
9-89

Fitting, Quick Disconnect

110 Each 18.0000 2 2

**

DAS
27
9-89

DAS
6
9-89

Location

Loc Qty

Loc Code

ST097

18

135218

8

135715

10

D4384-1 Manufactured No

D4384-1

DAS
02
9-89

Placard

110 Each 11.0000 1 1

**

DAS
27
9-89

DAS
6
9-89

Location

Loc Qty

Loc Code

FG

5

80679

5

ST103

6

133324

6

AN526-1032R16 Purchased No

AN526-1032R16

DAS
02
9-89

Screw

110 Each 20.0000 4 4

**

DAS
27
9-89

DAS
6
9-89

Location

Loc Qty

Loc Code

ST326

20

m130928

20

SEP 16 2015

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐								
Misidentified ☐	Past Due ☐	OTHER :							

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Work Order ID: 136165

136165

Parent Item: D139-799-015

D139-799-015

Parent Item Name: Engine Wash

Start Date: 8/26/2015

Required Date: 9/7/2015

Start Qty: 1.00

Required Qty: 1.00

AN832-6J

Purchased

No

110

Each

17.0000

2

2

AN832-6.J

Union

DAS
02
9-89

**

DAS
27
9-89

Location

Loc Qty

Loc Code

ST312A

16

m133031

16

ST324

1

m132803

1

AN924-6J

Purchased

No

110

Each

24.0000

4

4

AN924-6.J

NUT

DAS
02
9-89

**

DAS
27
9-89

Location

Loc Qty

Loc Code

FG

4

123245

2

m132256

2

ST322

20

m133031

20

NAS1149C0932R

Purchased

No

110

Each

47.0000

4

4

NAS1149C0932R

WASHER

DAS
02
9-89

**

DAS
27
SEP 18 2015

Location

Loc Qty

Loc Code

ST271

47

m131026

47

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐
OTHER :					

5.0 PARTS LIST

Qty -011	Qty -012	Qty -015	Qty -017	Qty -019	Qty -112	Part Number	Description
X						D139-799-011	MAINTENANCE STEP KIT, LH
	X					D139-799-012	MAINTENANCE STEP KIT, RH
		X				D139-799-015	ENGINE WASH KIT
			X			D139-799-017	CARGO FLOOR PROTECTOR KIT
				X		D139-799-019	CABIN FLOOR PROTECTOR KIT
					X	D139-799-112	MAINTENANCE STEP WITH GRAB BAR KIT, RH
			2			D3580-1	JOGGLE BRACKET
			2	8		D3628-1	CUPPED WASHER
1						D4092-041	MAINTENANCE STEP ASSEMBLY
	1					D4092-042	MAINTENANCE STEP ASSEMBLY
		2				D4121-1	HOSE ASSEMBLY
		1				D4121-3	HOSE ASSEMBLY
		1				D4121-5	HOSE ASSEMBLY
				1		D4130-1	FWD CABIN FLOOR PROTECTOR
				1		D4130-3	AFT CABIN FLOOR PROTECTOR
			1			D4130-5	FWD CARGO FLOOR PROTECTOR
			1			D4130-7	CENTER CARGO FLOOR PROTECTOR
			1			D4130-9	AFT CARGO FLOOR PROTECTOR
		1				D4131-041	MANIFOLD ASSEMBLY
		1				D4131-043	DOUBLER ASSEMBLY
		2				D4146-1	FITTING
			1			D4153-1	JOGGLE BRACKET
			1			D4153-3	JOGGLE BRACKET
				4		D4153-5	CLAMP PLATE
			2			D4166-1	PLACARD, MAX LOAD
		2				D4182-1	FITTING, QUICK DISCONNECT
		1				D4384-1	PLACARD
					1	D4526-042	MAINTENANCE STEP ASSEMBLY, RH
2	2				2	AN6H12A	BOLT
2	2				2	AN6H13A	BOLT
		4				AN526-1032R16	SCREW
		2				AN832-6J	UNION
		4				AN924-6J	NUT
		20				MS21919WDG09	CLAMP
6	6				6	NAS1149D0663J	WASHER (or AN960JD616)
		4				NAS1149C0932R	WASHER (or AN960C916L)